

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)

Our File No.: 120541-1005

APPLICANT

Stephen J. Elledge; Qinghua Liu

FILING DATE
July 24, 1998

GROUP 1643 1636

U. S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
Onl	5,102,797	4/7/92	Tucker, et al.	435	473	
/	4,959,317	9/25/90	Sauer	435	472.3	4/29/87
	4,683,195	7/28/87	Mullis, et al.	435	6	2/7/86
_	4,683,202	7/28/87	Mullis	435	91.2	10/25/85
	4,965,188	10/23/90	Mullis, et al.	435	6	6/17/87
	5,378,618	1/3/95	Sternberg, et al.	435	91.1	9/29/92
V	5,102,797	4/7/92	Jucker, et al.	435	172.3	5/26/89

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
m	92/15694	9/17/92	PCT		1		
	96/30498	10/3/96	PCT				
	93/15191	8/5/93	PCT)		
U	94/18333	8/18/94	PCT				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Hasan, et al., "Escherichia coli genome targeting, I. Cre-lox-mediated in vitro generation of ori plasmids and their in vivo chromosomal integration and retrieval," Gene 150:51-56 (1994).

Holt, et al., "A novel phage λ replacement Cre-lox vector that has automatic subcloning capabilities," Gene 133:95-97 (1993).

Elledge, et al., "YES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and *Escherichia* coli mutations," Proc. *Natl. Acad. Sci. USA* 88:1731-1735 (1991).

Brunelli, et al., "Lambda/Plasmid Vector Construction by *In Vivo* Cre/lox-Mediated Recombination," BioTechniques 16(6):1061-1064 (1994).

Stryer, Biochemistry, 2nd ed., W.H. Freeman and Co., San Francisco, CA (1981), p.610.

2	
YENT?	Sambrook, J., et al. Molecular Cloning: A Laboratory Manual, 2 nd ed., Cold Spring Harbor Laboratory press, New (1989) pp. 16.6-16.8.
	Maniatis, et al., "Regulation of Inducible and Tissue-Specific Gene Expression," Science 236:1237-1245 (1987).
	Voss, et al., "The role of enhancers in the regulation of cell-type-specific transcriptional control," Trends Biochem. Sci., 11:287-289 (1986).
	Dijkema, et al., "Cloning and expression of the chromosomal immune interferon gene of the rate," EMBO J. 4:761-767 (1985).
	Uetsuki, et al., "Isolation and Characterization of the Human Chromosomal Gene for Polypeptide Chain Elongation Factor-1α*," J. Biol. Chem., 264:5791-5798 (1989).
	Kim, et al., "Use of the human elongation factor 1α promoter as a versatile and efficient expression system," Gene 91:217-223 (1990).
	Mizushima and Nagata, "pEF-BOS, a powerful mammalian expression vector," Nuc. Acids. Res., 18:5322 (1990).
	Gorman, et al., "The Rous sarcoma virus long terminal repeat is a strong promoter when introduced into a variety of eukaryotic cells by DNA-mediated transfection," Proc. Natl. Acad. Sci. USA 79:6777-6781 (1982).
	Boshart, et al., "A Very Strong Enhancer Is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," Cell 41:521-530 (1985).
	Metcalf, et al. (1996) "Conditionally Replicative and Conjugative Plasmids Carrying lacZα for Cloning, Mutagenesis, and Allele Replacement in Bacteria," Plasmid 35:1-13.
	Ayres, et al. (1993) "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX): The trfA Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," J. Mol. Biol. 230:174-185.
	Pal, et al. (1986) "P1 Plasmid Replication Role of Initiator Titration in Copy Number Control," J. Mol. Biol. 192:275-285.
	Sugiura, et al., (1992) "Minimal Essential Origin of Plasmid pSC101 Replication: Requirement of a Region Downstream of Iterons," J. Bacteriol. 175:5993-6001.
	Stenzel, et al., "The Integration Host Factor of Escherichia coli Binds to Bent DNA at the Origin of Replication of the Plasmid pSC101," (1987) Cell 49:709.
	Grindley and Kelley (1976) "Effects of Different Alleles of the E. coli K12 polA Gene on the Replication of Non-transferring Plasmids," Mol. Gen. Genet. 143:311-318.
	Mendiola and de la Cruz (1989) "Specificity of Insertion of 1S91, an Insertion Sequence Present in alpha-haemolysin plasmids of <i>Escherichia coli</i> ," <i>Mol. Microbiol</i> . 3:979.
	Francia and Lobo (1996) "Gene Integration in the Escherichia coli Chromosome Mediated by Tn21 Integrase (Int21)," J. Bact. 178:894-898.
	Sternberg, et al., (1981) "Site-specific Recombination and Its Role in the Life Cycle of Bacteriophage P1," Cold Spring Harbor Symp. Quant. Biol. 45:297-309.
	Hoess, et al., (1982) "P1 site-specific recombination: Nucleotide sequence of the recombining sites," Proc. Natl. Acad. Sci. USA 79:3398-3402.
	Hoess, et al., (1984) "Interaction of the bacteriophage P1 recombinase Cre with the recombining site loxP," Proc. Natl. Acad. Sci. USA 81:1026-1029.
	Abremski, et al., (1983) "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products following Recombination," Cell 32:1301-1311.
\bigvee	Abremski, et al., (1984) "Bacteriophage P1 Site-specific Recombination," Journal of Biological Chemistry 259:1509-1514.

21	
Alenia:	Hoess and Abremski, (1985) "Mechanism of Strand Cleavage and Exchange in the Cre-lox Site-specific Recombination System," J. Mol. Biol. 181:351-362.
	Cox (1983) "The FLP protein of the yeast 2- μ m plasmid: Expression of a eukaryotic genetic recombination system in Escherichia coli," Proc. Natl. Acad. Sci. USA 80:4223-4227.
	Meyer-Lean, et al. (1987) "Purification of the FLP site-specific recombinase by affinity chromatography and re-examination of basic properties of the system," Nucleic Acids Res. 15:6469-6488.
	Babineau, et al., (1985) "The FLP Protein of the 2-micron Plasmid of Yeast," J. Biol. Chem. 260:12313-12319.
	Gronostajski and Sadowski (1985) "The FLP Protein of the 2-micron Plasmid of Yeast," J. Biol. Chem. 260-12328-12335.
	Weisberg, et al., "Site-specific recombination in Phage Lambda," In: Lambda II, Hendrix, et al. Eds., Cold Spring Harbor Press, Cold Spring Harbor, NY (1983) pp. 211-250.
	Leslie and Sherratt (1995) "Site-specific recombination in the replication terminus region of <i>Escherichia coli</i> : functional replacement of <i>dif</i> ," <i>EMBO J.</i> 14:1561.
	Lu and Churchward (1994) "Conjugative transposition: Tn916 integrase contains two independent DNA binding domain that recognize different DNA sequences," <i>EMBO J.</i> 13:1541-1548.
	Mercier, et al. (1990) "Structural and Functional Characterization of tnpl, a Recombinase Locus in Tn21 and Related β Lactamase Transposons," J. Bacteriol. 172:3745-3757.
	Flanagan, et al. (1989) "Analysis of Inhibitors of the Site-specific Recombination Reaction Mediated by Tn3 Resolvase," J. Mol. Biol. 206:295.
	Stark, et al. (1989) "Site-Specific Recombination by Tn3 Resolvase: Topological Changes in the Forward and Reverse Reactions," Cell 58:779-790.
	Sato, et al. (1990) "The cisA Cistron of Bacillus subtilis Sporulation Gene spoIVC Encodes a Protein Homologous to a Site-Specific Recombinase," J. Bacteriol. 172:1092-1098.
	Glasgow, et al. (1989) "DNA-binding Properties of the Hin Recombinase," J. Biol. Chem. 264:10072-10082.
	Hafter, et al. (1988) "Enhancer-independent mutants of the Cin recombinase have a relaxed topological specificity," EMBO J. '7:3991-3996.
	Malynn, et al. Cell (1988) "The scid Defect Affects the Final Step of the Immunoglobin VDJ Recombinase Mechanism 54:453-460.
	Schild, et al. (1990) "Cloning of three human multifunctional de novo purine biosynthetic genes by functional complementation of yeast mutations," Proc. Natl. Acad. Sci. USA 87:2916-2920.
	Bai, et al. (1996) "SKPI Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif the F-Box," Cell 86:263-274.
	Hoess, et al. (1986) "The role of the loxP spacer region in P1 site-specific recombination," Nucleic Acids Res. 14:2287-2300.
	Gay, et al. (1985) "Positive Selection Procedure for Entrapment of Insertion Sequence Elements in Gram-Negative Bacteria," J. Bacteriol. 164:918-1237.
	Gay, et al. (1983) "Cloning Structural Gene sacB, Which Codes for Exoenzyme Levansucrase of Bacillus subtilis: Expression of the Gene in Escherichia coli," J.Bacteriol. 153:1424-1431.
	Cigan, et al. (1988) "Mutational Analysis of the HIS4 Translational Initiator Region in Saccharomyces cerevisiae," Mol Cell. Biol. 8:2964-2975.
	Yoon, et al. (1992) "SSL1, a Suppressor of a HIS4 5'-UTR Stem-Loop Mutation, is Essential for Translation Initiation and Affects UV Resistance in Yeast," Genes and Dev. 6:2463.

1-30	· Š			
PATENT	Kanga, et al., "A wide-host-range suicide vector for improving reverse genetics in Gram-negative bacteria: inactivation the blad gene of Yersinia enterocolitica," Gene 109(1):137-141 (1991).			
	Holt & May, "A novel phage λ replacement Cre-lox vector that has automatic subcloning capabilities," Cell Biology, 95-97 (1993).			
	Wang, et al., "pDUAL: a transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates in vivo," Proc. Natl. Acad. Sci. USA 90(16):7874-7878 (1993).			
	Palazzolo, et al., "Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and CreloxP automatic plasmid subcloning," Gene 88:25-36 (1990).			
	Waterhouse, et al., "Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires," Nucleic Acids Research 21(9):2265-2266 (1993).			
	Sauer, "Functional Expression of the cre-lox Site-Specific Recombination System in the Yeast Saccharomyces cerevisiae," Molecular and Cellular Biology 7(6):2087-2096 (1987).			
	Sternberg, et al., "Bacteriophage P1 cre Gene and its Regulatory Region Evidence for Multiple Promoters and for Regulation by DNA Methylation," Mol. Biol. 187:197-212 (1986).			
	Tsurushita, et al., "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," Gene 172:59-63 (1996).			
	Hoess, et al., "Formation of small circular DNA molecules via an in vitro site-specific recombination system," Gene 40:325-329 (1985).			
V	Kolb and Siddell, "Genomic targeting with an MBP-Cre fusion protein," Gene 183:53-60 (1996).			
	RAILEM DATE CONSIDERED 16 AUG 1999			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.